

## Auxiliary Request IX

1. An aqueous binder composition for mineral fibres comprising:
  - a component (i) in form of one or more oxidized lignins;
  - a component (ii) in form of one or more cross-linkers in form of aliphatic multifunctional carbodiimides;
  - a component (iii) in form
    - o one or more plasticizers selected from the group consisting of fatty alcohols, monohydroxy alcohols, such as pentanol, stearyl alcohol; and/or
    - o one or more plasticizers selected from the group consisting of alkoxyates such as ethoxyates, such as butanol ethoxyates, such as butoxytriglycol; and/or
    - o one or more plasticizers in form of propylene glycols; and/or
    - o one or more plasticizers in form of glycol esters; and/or
    - o one or more plasticizers selected from the group consisting of adipates, acetates, benzoates, cyclobenzoates, citrates, stearates, sorbates, sebacates, azelates, butyrates, valerates; and/or
    - o one or more plasticizers selected from the group consisting of phenol derivatives, such as alkyl or aryl substituted phenols; and/or
    - o one or more plasticizers selected from the group consisting of silanols, siloxanes; and/or
    - o one or more plasticizers selected from the group consisting of sulfates such as alkyl sulfates, sulfonates such as alkyl aryl sulfonates such as alkyl sulfonates, phosphates such as tripolyphosphates; and/or
    - o one or more plasticizers in form of hydroxy acids; and/or
    - o one or more plasticizers selected from the group consisting of monomeric amides, such as acetamides, benzamide, fatty acid amides such as tall oil amides; and/or
    - o one or more plasticizers selected from the group consisting of quaternary ammonium compounds such as trimethylglycine, distearyldimethylammoniumchloride; and/or
    - o one or more plasticizers selected from the group consisting of vegetable oils such as castor oil, palm oil, linseed oil, soybean oil; and/or
    - o tall oil, and/or
    - o one or more plasticizers selected from the group consisting of hydrogenated oils, acetylated oils; and/or
    - o one or more plasticizers selected from acid methyl esters; and/or